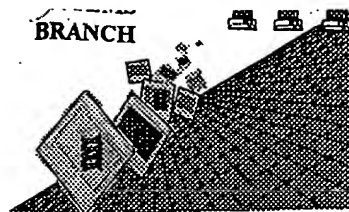


1600

**CRF Problem Report**

BRANCH



The Scientific and Technical Information Center (STIC) experienced a problem when processing the following computer readable form (CRF):

Application Serial Number: 09/787,559B  
 Filing Date: 06/18/2001  
 Date Processed by STIC: 12/19/02

**RECEIVED**

JAN 02 2003

TECH CENTER 1600/2900

STIC Contact: Mark Spencer, 703-308-4212

**Nature of Problem:**

The CRF (was):

- ☐ (circle one) Damaged or Unreadable (for Unreadable, see attached)  
☐ Blank (no files on CRF) (see attached)  
☐ Empty file (filename present, but no bytes in file) (see attached)  
☐ Virus-infected. Virus name: \_\_\_\_\_ The STIC will not process the CRF.  
☐ Not saved in ASCII text  
☐ Sequence Listing was embedded in the file. According to Sequence Rules,  
     submitted file should **only** be the Sequence Listing.  
☒ Did not contain a Sequence Listing. (see attached sample)  
☐ Other: \_\_\_\_\_

**PLEASE USE THE CHECKER VERSION 3.1 PROGRAM TO REDUCE ERRORS.  
 SEE BELOW FOR ADDRESS:**

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebs/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
 U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name,  
 Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
 Or  
 U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two,  
 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office,  
 Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 01/29/2002

#19



Does Not Comply  
Corrector's Note Needed

OTPE  
1600

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/787,559B

DATE: 12/19/2002  
TIME: 08:59:57

See sample of  
proper sequence  
listing attached.

Input Set : A:\400.001-6seq.WorkFile.txt  
Output Set: N:\CRF4\12192002\I787559B.raw

W--> 1 Application Project  
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W--> 4 <130> FILE REFERENCE: AppFileReference : KMI/PCT  
W--> 5 <140> CURRENT APPLICATION NUMBER: CurrentAppNumber : 09/787,559B  
C--> 6 <141> CURRENT FILING DATE: 2001-06-18  
W--> 8 Earlier Applications  
W--> 9 -----  
10 <150> PRIOR APPLICATION NUMBER: PriorAppNumber : DE 198 42 863  
W--> 11 <151> PRIOR FILING DATE: PriorFilingDate : 1998-09-19  
W--> 13 Sequence  
W--> 14 -----

If Patent In  
Software was  
used, please Contact  
Robert Wex for  
assistance at 703-308-  
4216, or 703-306-  
4119.

#### ERRORED SEQUENCES

15 <213> ORGANISM: OrganismName : Homo sapiens  
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19 tgggcaaagg caacttcgcg gtggtgaagc tggcgcggca tcgagtcacc aaaacgcagg 180  
20 ttgcaataaa aataattgat aaaacacgat tagattcaag caatttggag aaaatctatc 240  
21 gtgaggttca gctgatgaag cttctgaacc atccacacat cataaagctt taccaggtta 300  
22 tggaaacaaa ggacatgctt tacatcgtca ctgaatttgc taaaaatgga gaaatgtttg 360  
23 attatttgac ttccaacggg cacctgagtg agaacgaggc gcggaagaag ttctggcaaa 420  
24 tcctgtcggc cgtggagtag tgtcacgacc atcacatcgt ccaccgggac ctcaagaccg 480  
25 agaacctcct gctggatggc aacatggaca tcaagctggc agattttgga tttgggaatt 540  
26 tctacaagtc aggagagcct ctgtccacgt ggtgtgggag ccccccgat gccgccccgg 600  
27 aagtctttga ggggaaggag tatgaaggcc ccagctgga catctggagc ctgggcgtgg 660  
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34 actttgctgc catttattac ctccctcttg agcggctcaa ggagtatcgg aatgccagc 1080  
35 gcgcccggcc cgggcctgcc aggcagccgc ggccctcgag ctcggaacctc agtggtttgg 1140  
36 aggtgcctca ggaaggctct tccaccgacc ctttccgacc tgcccttgctg tgcccgcagc 1200

## RAW SEQUENCE LISTING

DATE: 12/19/2002

PATENT APPLICATION: US/09/787,559B

TIME: 08:59:57

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Output Set: N:\CRF4\12192002\I787559B.raw

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39 ccgtgtcccc aagcagcctg ctggacacag ccatcagtga ggaggccagg cagggggccg 1380
40 gcctagagga ggagcaggac acgcaggagt ccctgcccag cagcacgggc cggaggcaca 1440
41 ccctggccga ggtctccacc cgcctctccc cactcaccgc gccatgtata gtcgtctccc 1500
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59 aaaaaaaaaa aaa 2533

```

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W--&gt; 63 SequenceDescription :

W--&gt; 65 Sequence

W--&gt; 66 -----

67 &lt;213&gt; ORGANISM: OrganismName : Homo sapiens

E--&gt; 68 &lt;210&gt; SEQ ID NO:

W--&gt; 68 &lt;400&gt; SEQUENCE: PreSequenceString :

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E--> 70 aIkIIdktrL dssnLEkIyr EvQLmkLLnh PhIikLyQvm EtkdmLyIvt EFakngEmFd 120
E--> 71 yLtsnghLsE nEarkkFwQI LsavEychdh hIvhrdLktE nLLLDgnmdI kLadFgFgnF 180
E--> 72 yksgEPLstw cgsPPyaaPE vFEgkEyEgP QLdiwsLgvv LyvLvcsLP FdgPnLPtLr 240
73 QrvLEgrFrI PFFmsQdcEs LIrrmLvvdP arrItIaQIr QhrwmraEPc LPgPacPaFs 300
E--> 74 ahsytsnLgd ydEQaLgImQ tLgvdrQrtv EsLQnsssynh FaaIyyLLE rLkEyrnaQc 360
75 arPgParQPr PrssdLsgLE vPQEGlstdP FrPaLLcPQP QtLvQsvLQa EmdeELQssL 420
76 QwPLFFPvda scsgvFrPrP vsPssLLdta IsEEarQgPg LEEEQdtQEs LPsstgrrht 480
77 LaEvstrLsP LtaPcIvvsP sttasPaEgt ssdscLtFsa sksPagLsgt PatQgLLgac 540
78 sPvrLasPFL gsQsatPvLQ aQggLggavL LPvsFQEgrr asdtsLtQgL kaFrQQLrkt 600
E--> 79 trtkgFLgLn kIkglarQvc QvPasrasrg gLsPFhaPaQ sPgLhggag srEgwsLLEE 660
80 vLEQQRLLQL QhhPaaaPgc sQaPQPpaPaP FvIaPcdgPg aaPLPstLLt sgLPLLPPL 720
81 LQtgasPvas aaQLLdthLh IgtgPtaLPa vPPPrLarLa PgcEPLgLLQ gdcEmEdLmP 780
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E--&gt; 83 &lt;212&gt; TYPE: Type : PRT

W--&gt; 84 &lt;211&gt; LENGTH: Length : 790

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## RAW SEQUENCE LISTING

DATE: 12/19/2002

PATENT APPLICATION: US/09/787,559B

TIME: 08:59:57

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Output Set: N:\CRF4\12192002\I787559B.raw

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E--> 94 LNHPHIIKLY QVMETKDMLY IVTEFAKNGE MFDYLTSGH LSENEARKKE WQILSAVEYC      180
E--> 95 HDHHIVHRDL KTNLLLDGN MDIKLADFGF GNFKSGEPL STWCGSPPYA APEVFEGKEY      240
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    99 TDPFRPALLC PQPQTLVQSV LQAEMDCELQ SSLQWPLFFP VDASCSGVFR PRPVSPSSLL      480
    100 DTAISEEARQ GPGLEEEQDT QESLPSSTGR RHTLAEVSTR LSPLTAPCIV VSPSTTASPA      540
    101 EGTSSDCLT FSASKSPAGL SGTPTQGLL GACSPVRLAS PFLGSQSATP VLQAQGLGG      600
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    103 SRGGLSPFHA PAQSPGLHGG AAGSREGWSL LEEVLEQQRL LQLQHHPAAA PGCSQAPQPA      720
    104 PAPFVIAPCD GPAAAPLPST LLTSGPLPLP PPLLQTGASP VASAAQLLDT HLHIGTGPTA      780
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    133 agaggacggt ggagtcactg caaaacagca gctataacca ctttgcctgcc atttattacc      1140
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## RAW SEQUENCE LISTING

DATE: 12/19/2002

PATENT APPLICATION: US/09/787,559B

TIME: 08:59:57

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Output Set: N:\CRF4\12192002\I787559B.raw

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157 cttcagagga ggtgaagaca tctggcctca aagccaagaa ctttctagaa gcgaaataag 2580
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W--> 163 SequenceDescription :
W--> 165 Sequence
W--> 166 -----
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W--> 168 <400> SEQUENCE: PreSequenceString :
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W--> 176 -----
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W--> 183 SequenceDescription :

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 <303> Journal of Genes  
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Appendix 3, page 2.

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Met Val Ser Met Phe Ser

ttg tct ttc aaa tgg cct gga ttt tgt ttg ttt gtt tgt ttg ttc caa 344  
Leu Ser Phe Lys Trp Pro Gly Phe Cys Leu Phe Val Cys Leu Phe Gln

tgt ccc aaa gtc ctc ccc tgt cac tca tca ctg cag ccg aat cct 389  
Cys Pro Lys Val Leu Pro Cys His Ser Ser Leu Gln Pro Asn Leu

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<211> ART 37  
<212> PRT  
<213> Paramecium sp.

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1 5 10 15

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20 25 30

Leu Gln Pro Asn Leu  
35

<210> 3  
<211> 11  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Designed peptide based on size and polarity to act as a linker between the alpha and beta chains of Protein XYZ.

<400> 3  
Met Val Asn Leu Glu Pro Met His Thr Glu Ile  
1 5 10

<210> 4  
<400> 4  
000

[Annex VIII follows]

identifiers and their accompanying information as shown in the following table. The numeric identifier shall be used only in the "Sequence Listing." The order and presentation of the items of information in the "Sequence Listing" shall conform to the arrangement given below. Each item of information shall begin on a new line and shall begin with the numeric identifier enclosed in angle brackets as shown. The submission of those items of information designated with an "M" is mandatory. The submission of those items of information designated with an "O" is optional. Numeric identifiers <110> through <170> shall only be set forth at the beginning of the "Sequence Listing." The following table illustrates the numeric identifiers.

Numeric Identifier	Definition	Comments and Format	Mandatory (M) or Optional (O)
<110>	Applicant	Preferably max. of 10 names; one name per line; preferable format: Surname, Other Names and/or Initials	M
<120>	Title of Invention		M
<130>	File Reference	Personal file reference	M, when filed prior to assignment of appl. number
<140>	Current Application Number	Specify as: US 07/999,999 or PCT/US96/99999	M, if available
<141>	Current Filing Date	Specify as: yyyy-mm-dd	M, if available
<150>	Prior Application Number	Specify as: US 07/999,999 or PCT/US96/99999	M, if applicable include priority documents under 35 USC 119 and 120
<151>	Prior Application Filing Date	Specify as: yyyy-mm-dd	M, if applicable
<160>	Number of SEQ ID NOs	Count includes total number of SEQ ID NOs	M
<170>	Software	Name of software used to create the Sequence Listing	O
<210>	SEQ ID NO: #:	Response shall be an integer representing the SEQ ID NO shown	M
<211>	Length	Respond with an integer expressing the number of bases or amino acid residues	M



<212>

Type

Whether presented sequence molecule is DNA, RNA, or PRT (protein). If a nucleotide sequence contains both DNA and RNA fragments, the type shall be "DNA." In addition, the combined DNA/RNA molecule shall be further described in the <220> to <223> feature section.

<213>

Organism

Scientific name, i.e. Genus/species, Unknown or Artificial Sequence. In addition, the "Unknown" or "Artificial Sequence" organisms shall be further described in the <220> to <223> feature section.

M

<220>

Feature

Leave blank after <220>. <221-223> provide for a description of points of biological significance in the sequence.

M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified base was used in a sequence; if ORGANISM is "Artificial Sequence" or "Unknown"; if molecule is combined DNA/RNA.

<221>

Name/Key

Provide appropriate identifier for feature, preferably from WIPO Standard ST.25 (1998), Appendix 2, Tables 5 and 6

M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified base was used in a sequence

<222>

Location

Specify location within sequence; where appropriate state number of first and last bases/amino acids

M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified

in feature

use was used in  
sequence

<223>

Other Inform-  
ation

Other relevant  
information;  
four lines maximum

H, under the fol-  
lowing conditions:  
if "n," "Xaa," or  
a modified or un-  
usual L-amino acid  
or modified base  
was used in a  
sequence; if  
ORGANISM  
is "Artificial  
Sequence" or  
"Unknown"; if  
molecule is com-  
bined DNA/RNA

<300>

Publication  
Information

Leave blank  
after <300>

0

<301>

Authors

Preferably max  
of ten named  
authors of publi-  
cation; specify  
one name per line;  
preferable format:  
Surname, Other  
Names and/or  
Initials

0

<302>

Title

0

<303>

Journal

0

<304>

Volume

0

<305>

Issue

0

<306>

Pages

0

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Date

Journal date on which  
data published;  
specify as yyyy-mm-  
dd, 1001-yyyy or  
Season-yyyy

0

<308>

Database  
Accession  
Number

Accession number  
assigned by data-  
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Database Entry  
Date

Date of entry in  
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as yyyy-mm-dd or  
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<310>

Patent Document  
Number

Document number;  
for patent-type  
citations only.  
Specify as, for  
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07/999,999

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Patent Filing  
Date

Document filing  
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<312>

Publication Date

Document publication  
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specify as yyyy-mm-dd

<313>

Relevant  
Residues

FROM (position) TO  
(position) 0

<400>

Sequence

SEQ ID NO should  
follow the  
numeric identifier  
and should appear  
on the line pre-  
ceding the actual  
sequence

5. Section 1.024 is revised to read as follows:

1.024 Form and format for nucleotide and/or amino acid sequence submissions in computer readable form.

(a) The computer readable form required by 1.021(c) shall meet the following specifications:

(1) The computer readable form shall contain a single "Sequence Listing" as either a diskette, series of diskettes, or other permissible media outlined in paragraph (c) of this section.

(2) The "Sequence Listing" in paragraph (a) (1) of this section shall be submitted in American Standard Code for Information Interchange (ASCII) text. No other formats shall be allowed.

(3) The computer readable form may be created by any means, such as word processors, nucleotide/amino acid sequence editors or other custom computer programs; however, it shall conform to all specifications detailed in this section.

(4) File compression is acceptable when using diskette media, so long as the compressed file is in a self-extracting format that will decompress on one of the systems described in paragraph (b) of this section.

(5) Page numbering shall not appear within the computer readable form version of the "Sequence Listing" file.

(6) All computer readable forms shall have a label permanently affixed thereto on which has been hand-printed or typed: the name of the applicant, the title of the invention, the date on which the data were recorded on the computer readable form, the operating system used, a reference number, and an application serial number and filing date, if known.

(b) Computer readable form submissions must meet these format requirements:

(1) Computer: IBM PC/XT/AT, or compatibles, or Apple Macintosh;

(2) Operating System: MS-DOS, Unix or Macintosh;